

CHANNEL ESTIMATOR AND METHOD FOR ESTIMATING A CHANNEL TRANSFER FUNCTION AND APPARATUS AND METHOD FOR PROVIDING PILOT SEQUENCES

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A Channel estimator for estimating a channel transfer function of a communication channel from a receive signal including a pilot sequence being transmittable from a transmitting point to a receiving point through the communication channel, wherein the pilot sequence is designed such that a spectral representation of the pilot sequence occupies a band-pass spectral region having a predetermined center frequency comprises a band-pass filter having the predetermined center frequency for filtering a spectral representation of the receive signal to obtain a filtered transformed signal, wherein the filtered transformed signal comprises an estimate of the channel transfer function. Therefore, an efficient channel estimation scheme for multiple input multiple output systems is provided.

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